



## CITY OF DURHAM | NORTH CAROLINA

**Date:** December 18, 2012

**To:** Thomas J. Bonfield, City Manager  
**Through:** Keith Chadwell, Deputy City Manager  
**From:** Jerry Morrone, Engineering Supervisor, Water Management  
Donald F. Greeley, Director, Water Management

**Subject:** Eno Economic Development District Water and Sewer System Project – Professional Engineering Services – CDM Smith, Inc.

### Executive Summary

On November 21<sup>st</sup>, 2011, the City Council authorized the City Manager to execute an Interlocal Agreement with Orange County to extend City of Durham water and sewer service to the 1,000-acre Eno Economic Development District (Eno EDD) in Orange County. Pursuant to this Agreement, the Department of Water Management issued a Request for Qualifications (RFQ) for Professional Engineering Services for the master planning, design, permitting and construction administration of infrastructure upgrades to the Eno EDD. The Department received 5 responses to the RFQ. The engineering firm CDM Smith, Inc. was selected and a scope of services for master planning portion of the project has been negotiated in the amount of \$110,000.00. After the master plan is complete, an amendment to this contract for design, permitting and construction administration services with CDM Smith, Inc. will be negotiated and submitted to City Council for approval.

### Recommendation

The Department of Water Management recommends that the City Council:

1. Authorize the City Manager to execute a contract with CDM Smith, Inc. for Professional Engineering Services in an amount not to exceed \$110,000.00 for the Economic Development District Water and Sewer System Project and
2. Establish a contingency fund for the contract in the amount not to exceed \$11,000.00; and
3. Authorize the City Manager to negotiate change orders for the contract provided that the cost of all change orders does not exceed \$11,000.00, and the total project cost of \$121,000.00.

### Background

The Eno EDD is a section of Orange County adjacent to I-85 and the Durham/Orange County line that is within the City of Durham's water and sewer service area. A map of this area has been attached to this memo for reference. No gravity sewer infrastructure currently exists in this area, and only limited water distribution infrastructure is available. Orange County and the City of Durham entered in to an Interlocal Agreement that provides reimbursement to the City of Durham from Orange County to extend sewer service to this area and enhance the existing water distribution system.

The proposed project will evaluate projected growth in the Eno EDD and master plan a utility infrastructure backbone to serve new customers. The evaluation of projected growth will use available data such as zoning, existing transportation projections and additional projected growth information made available by Orange County. Once projected growth is established, the utility needs of the additional customers will be evaluated and potential locations for water transmission mains, sewer collection mains and sanitary sewer lift stations will be evaluated. A master plan summarizing the findings and recommending improvements will be submitted to both Orange County and the City of Durham for review and acceptance. Once infrastructure size and location recommendations have been accepted, an amendment for the design and permitting of the proposed utilities will be submitted for approval by Council.

### **Issues and Analysis**

There were 5 firms that responded to the RFQ:

- AECOM
- ARCADIS G&M of North Carolina, Inc.
- CDM Smith, Inc.
- McKim and Creed
- Wooten

Three firms were short listed to present their proposals to the selection committee. The selection committee was comprised of staff from the Department, Equal Opportunity/Equity Assurance Department and Orange County Planning Department. Based on their proposal and experience the committee selected the firm of CDM Smith, Inc. for the project.

Once CDM Smith, Inc. has completed its analysis and made recommendations for the upgrade of utilities in the Eno EDD, the City will negotiate an amendment to the proposed contract to prepare detailed design plans, prepare the necessary permits and provide construction oversight. This amendment is anticipated to be between \$100,000.00 and \$400,000.00, depending on the recommended infrastructure.

### **Alternatives**

One alternate is to not pursue the project and continue to provide only minimal water service to the Eno EDD. This would not fulfill Durham's obligations in the Interlocal Agreement with Orange County, and would make development in the project area cost-prohibitive for prospective employers due to large utility infrastructure costs. No cost savings to the City of Durham would be realized under this alternative, as Orange County is directly reimbursing Durham for all design costs.

A second alternate is to prepare the master plan in-house with current engineering and operations staff. Current staff lacks the availability to complete the evaluation and engineering report in a timely manner, and does not have the capability to prepare the detailed design drawings necessary to bid a project of this magnitude.

### **Financial Impact**

Funding for the project was approved as part of the Capital Improvements Program under the Orange County Economic Development Zone Improvements Project. Funds have been set up in the following accounts:

4100P007-731004-P2651	\$110,000
4100P007-731900-P2651	<u>\$ 11,000</u>
<b>Total</b>	<b>\$121,000</b>

As per the interlocal agreement, Orange County will reimburse all costs associated with this contract.

### **SDBE Summary**

The Equal Opportunity/Equity Assurance Department reviewed the proposal submitted by CDM Smith of Raleigh, North Carolina to determine compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting. It was determined that CDM Smith is in compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting.

### **SDBE REQUIREMENTS**

There are no M/SDBE or W/SDBE goals.

### **WORKFORCE STATISTICS**

Workforce statistics for CDM Smith are as follows:

Total Workforce	75	
Total Females	20	(27%)
Total Males	55	(73%)
Black Males	1	(1%)
White Males	43	(57%)
Other Males	11	(15%)
Black Females	2	(3%)
White Females	16	(21%)
Other Females	2	(3%)

Attachments: Eno Economic District Map  
CDM Proposal  
Orange County Approval Letter